

EXHIBIT A

Providing a sealed first chamber	Fig. 1, 2a, and 3-paragraph 6 solvent chamber description as being open or closed
Providing a sealed second chamber	Fig. 1, 2a, 3, 4, 6, 7, and 9 showing a closed and sealed system with valves to allow opening, see also description at paragraphs 54, 73, 75, 76, 80, and 83 for descriptions valves 311 used to open pressure chamber (second chamber)
Providing a semi-permeable barrier separating said first chamber from said second chamber	Figs 1, 2a, 3, 6, and 9 showing semi-permeable membrane and see also descriptions at paragraphs 5-9, 29-33, 41, 42, 44, 46, 48-51
Filling said first chamber with solvent	Figs 1, 2a, 3, 6 and paragraphs 6 and 29
filling said second chamber with solute solution comprising a solute and a solvent	Figs 1, 2a, 3, 6, and 9 and paragraphs 5-9, 29, 31, 34, 46, and 51
Providing communication between the solvent solution and the solute solution to cause the solvent solution to flow from the first chamber through the semi-permeable membrane into the second chamber forming diluted solute solution	Figs 1, 2a, 3, 6, and 9 and paragraphs 6-9 and 29
utilizing the semi-permeable barrier to restrict solute from flowing into the first chamber while allowing the solvent to flow into the second chamber as the solvent flows from the first chamber into the second chamber a void is created in the first chamber such that a vacuum develops in the first chamber and increases the pressure in the <u>diluted solute solution in the second chamber</u>	Figs., 1, 2a, 3, 6, and 9, the abstract, and paragraphs 5-8, 42, 76 and 77
periodically applying and using the increased pressure to drive a member which produces a movement from which work can be extracted	Figs. 4, 6, 7, and 9. Paragraphs 54, 56, 73-75, and 80
transferring the removed portion of the diluted solute solution to a third chamber	Figs 6 and 9. Paragraphs 6, 7, 9, 56, 58, 60, 61, 64, 84, 85
applying energy to the removed portion of the diluted solute solution in the third chamber thereby vaporizing the solvent contained in the removed portion of the	Fig. 5. Paragraph 6, 25, 60, 61, 64

diluted solute solution thereby separating the solute in the removed portion of the diluted solute solution	
recycling the separated solute to the second chamber	Figs., 6, 7, and 9. Paragraphs 6, 7, 53, 60, and 66

Claim 47

condensing the vaporized solvent to liquid solvent	Figs 5 and 6. Paragraphs 60, 61, and 64
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Claim 48

returning the liquid solvent to the first chamber	Figs. 6 and 9. Paragraphs 6, 7, and 77
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Claim 50

Providing a sealed first chamber	Fig. 1, 2a, and 3-paragraph 6 solvent chamber description as being open or closed
providing a sealed second chamber	Fig. 1, 2a, 3, 4, 6, 7, and 9 showing a closed and sealed system with valves to allow opening, see also description at paragraphs 54, 73, 75, 76, 80, and 83 for descriptions valves 311 used to open pressure chamber (second chamber)
Providing a semi-permeable barrier separating said first chamber from said second chamber	Figs 1, 2a, 3, 6, and 9 showing semi-permeable membrane and see also descriptions at paragraphs 5-9, 29-33, 41, 42, 44, 46, 48-51
Filling said first chamber with solvent	Figs 1, 2a, 3, 6 and paragraphs 6 and 29
filling the second chamber with a solute solution	Figs 1, 2a, 3, 6, and 9 and paragraphs 5-9, 29, 31, 34, 46, and 51
Providing communication between the solvent solution and the solute solution to cause the solvent solution to flow from the first chamber through the semi-permeable membrane into the second chamber forming diluted solute solution	Figs 1, 2a, 3, 6, and 9 and paragraphs 6-9 and 29
utilizing the semi-permeable barrier to restrict solute from flowing into the first chamber while allowing the solvent to flow into the second chamber as the solvent flows from the first chamber into the second chamber a void is created in the first chamber such that a vacuum develops in the first chamber and increases the	Figs., 1, 2a, 3, 6, and 9, the abstract, and paragraphs 5-8, 42, 76 and 77

pressure in the <u>diluted solute solution in the second chamber</u>	
periodically removing and using the increased pressure to drive a member which produces a movement from which work can be extracted	Figs. 4, 6, 7, and 9. Paragraphs 54, 56, 73-75, and 80
transferring the removed portion of the diluted solute solution to a third chamber	Figs 6 and 9. Paragraphs 6, 7, 9, 56, 58, 60, 61, 64, 84, 85
applying energy to the removed portion of the diluted solute solution in the third chamber thereby vaporizing the solvent contained in the removed portion of the diluted solute solution thereby separating the solute in the removed portion of the diluted solute solution	Fig. 5. Paragraph 6, 25, 60, 61, 64
recycling the separated solute to the second chamber	Figs., 6, 7, and 9. Paragraphs 6, 7, 53, 60, and 66

Claim 51

pressurizing the first chamber	Paragraphs 27, 28, 45, and 82.
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Claim 52

pressurizing the solvent chamber comprises using an external pressure pump in communication with the first chamber	Paragraphs 8, 45, and 78
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Claim 57

providing a sealed first chamber	Fig. 1, 2a, and 3-paragraph 6 solvent chamber description as being open or closed
providing a sealed second chamber	Fig. 1, 2a, 3, 4, 6, 7, and 9 showing a closed and sealed system with valves to allow opening, see also description at paragraphs 54, 73, 75, 76, 80, and 83 for descriptions valves 311 used to open pressure chamber (second chamber)
providing a semi-permeable barrier separating the first chamber from the second chamber	Figs 1, 2a, 3, 6, and 9 showing semi-permeable membrane and see also descriptions at paragraphs 5-9, 29-33, 41, 42, 44, 46, 48-51
filling the first chamber with a solvent	Figs 1, 2a, 3, 6 and paragraphs 6 and 29
filling the second chamber with a solute solution	Figs. 1, 2a, 3, 6 and paragraphs 6-9, 29, and 34
providing fluid communication between the solvent and the solute solution to cause the solvent to flow from the first chamber	Figs 1, 2a, 3, 6, and 9 and paragraphs 6-9 and 29

through the semi-permeable barrier into the second chamber	
utilizing the semi-permeable barrier to restrict the solute solution from entering the first chamber while allowing solvent to flow from the first chamber into the second chamber, as the solvent flows from the first chamber into the second chamber a void is created in the first chamber thereby forming the vacuum to aid in the crystallization of the solute	Figs 1, 2a, 3, 6, and 9 and paragraphs 6-9, 29, 44, 63, and 74

Claim 58

exhausting the solute solution from the second chamber	Paragraphs 7, 9, 67
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Claim 68 and 71

the application of energy heats the solute solution to separate solute molecules from solvent molecules	Figs. 5. Paragraphs 60 and 64
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